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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/985,827	11/06/2001	Moon-Jeong Choi	Q65852	4488

7590 11/30/2004
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EXAMINER

AVELLINO, JOSEPH E

ART UNIT PAPER NUMBER

2143

DATE MAILED: 11/30/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Handwritten signature or mark.

Office Action Summary	Application No. 09/985,827	Applicant(s) CHOI, MOON-JEONG	
	Examiner Joseph E. Avellino	Art Unit 2143	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 06 November 2001.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-17 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-17 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>01/13/04</u> | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. Claims 1-17 are presented for examination; claims 1, 5, 9, 13, and 17 independent.

Priority

2. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ngo et al. (WO 00/04427) (cited by Applicant in IDS) (hereinafter Ngo) in view of Malkin et al. (EP 1 021 021) (cited by Applicant in IDS) (hereinafter Malkin).

5. Referring to claim 1, Ngo discloses a system connected to a home network (Figure 1, entire figure) in which a plurality of devices are connected to one another through the Internet, the system provides a certain device in the home network with a service (p. 7, lines 10-25) comprising:

a database that stores address information about the home network that subscribes to the service, and information about at least one of a plurality of service recipient devices within the home network (col. 6, lines 15-33; col. 7, line 10 to col. 8, line 15).

Ngo does not specifically disclose the system transmits a notifying message to at least one of the plurality of service recipient devices prior to providing the service, to confirm whether the device can receive the service or not, and provides the service to the device after receiving an affirmative response from the device and the notifying message contains additional identifying information of the service recipient device as well as information about an address of the home network to which the plurality of devices belong. In analogous art, Malkin discloses another system connected to a home network for providing a service (i.e. data distribution) wherein the system transmits a notifying message (i.e. status message, PING) to at least one of the plurality of service recipient devices (i.e. client device) prior to providing the service, to confirm

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whether the device can receive the service or not, and provides the service to the device after receiving an affirmative response (i.e. client has reached the desired status) from the device and the notifying message (to the push proxy server from the awareness server) contains additional identifying information of the service recipient device as well as information about an address of the home network to which the plurality of devices belong (col. 6, line 19 to col. 7, line 57).

It would be obvious to a person of ordinary skill in the art at the time the invention was made to combine the teaching of Malkin with Ngo since Ngo discloses that the system is used to collect data from remote meters, however does not specifically disclose an efficient method of collecting the information (p. 10, lines 5-10). This would lead one of ordinary skill searching in efficient methods on collecting non-time dependent data, which would lead one to the system of Malkin and the efficient push technique thereby sending data only when the system is able to sufficiently handle the data distribution as supported by Malkin (col. 2, lines 15-20).

6. Referring to claims 2 and 3, Ngo discloses the invention substantively as described in claim 1. Ngo does not specifically state that the additional identifying information is used for one of the plurality of devices of a same kind that intends to receive a same type of service. In analogous art, Malkin discloses the additional identifying information (i.e. addressing information such as hostname and IP address) is used for one of the plurality of devices (i.e. client devices) of a same kind (i.e. they are both client computers of the system) that intends to receive a same type of service (i.e.

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the data push) (col. 7, lines 37-58). It would be obvious to a person of ordinary skill in the art at the time the invention was made to combine the teaching of Malkin with Ngo since Ngo discloses that the system is used to collect data from remote meters, however does not specifically disclose an efficient method of collecting the information (p. 10, lines 5-10). This would lead one of ordinary skill searching in efficient methods on collecting non-time dependent data, which would lead one to the system of Malkin and the efficient push technique thereby sending data only when the system is able to sufficiently handle the data distribution as supported by Malkin (col. 2, lines 15-20).

7. Referring to claim 4, Ngo discloses the invention substantively as described in claim 1. Ngo does not specifically state the service is a push service that provides a certain service to the devices repeatedly in a predetermined period. Malkin discloses another system in which the service is a push service that provides a certain service to the devices repeatedly (i.e. when the device satisfies a certain status) in a predetermined period (cols. 6-7). It would be obvious to a person of ordinary skill in the art at the time the invention was made to combine the teaching of Malkin with Ngo since Ngo discloses that the system is used to collect data from remote meters, however does not specifically disclose an efficient method of collecting the information (p. 10, lines 5-10). This would lead one of ordinary skill searching in efficient methods on collecting non-time dependent data, which would lead one to the system of Malkin and the efficient push technique thereby sending data only when the system is able to sufficiently handle the data distribution as supported by Malkin (col. 2, lines 15-20).

8. Claims 5-17 are rejected for similar reasons as stated above. Furthermore Ngo discloses the database stores dynamic IP addresses and IDs of the devices (p. 5, lines 25-35; p. 9, line 22 to p. 10, line 10).

Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

10. Alcendor et al. (USPN 6,337,899) discloses speaker verification for authorizing updates to user subscription service received by ISP using an intelligent peripheral in an AIN.

11. Graham et al. (USPN 6,594,700) discloses implementing a universal service broker interchange mechanism.

12. Cole et al. (USPN 6,359,711) discloses supporting a worker in a distributed work environment.

13. Saito et al. (USPN 6,665,303) discloses scheme for realizing communications through external network from contents processing device connected to local network in home environment.

14. Humpleman et al. (USPN 6,466,971) discloses device to device command and control in an network.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph E. Avellino whose telephone number is (571) 272-3905. The examiner can normally be reached on Monday-Friday 7:00-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David A. Wiley can be reached on (571) 272-3923. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JEA
November 15, 2004

William C. Vaughn
Primary Examiner
Art Unit 2143
William C. Vaughn